

The following information must be obtained before the Department will submit a preliminary nutrient management plan or an environmental compliance letter to the producer or a public entity:

## Facility Site Plan Land Application / Resource Site Plan Site Visit and Interview

- One hour site review and interview with an ISDA employee to view environmental constraints on site and gather information to write a preliminary nutrient management plan.
- You must have the following information before conducting the site visit and interview
  - Farm Service Agency (FSA) aerial photograph of land application fields (including dairy site). You can get an aerial photograph by contacting your local USDA office, which houses FSA, with the legal address of the facility (Township and Range)
    Legal description of the facility location
    Complete lagoon sizing questionnaire

## Facility Site Plan

A site plan of the facility must be drawn to scale and labeled to include the following:

- Milk barn
- Livestock housing and corrals
  - Define type of housing
- Waste structures
  - Lagoon(s)
  - Separator(s)
  - Pump station(s)
  - Solid storage
  - Ditches
  - Buried or surface pipelines
  - Berms
  - Runoff containment
- Subsurface drains
- Residences
- Property lines, if appropriate
- Feed storage
- Wells and/or well heads
   (designate whether they are irrigation, domestic, or public)
- Surface waters, surface/subsurface drains (direction of flow)
- North Arrow / Scale
- Runoff containment
- Corral slopes
- Wastewater, irrigation and potable pipelines
- Detailed liquids application plan describing chemigation system

## Land Application / Resource Site Plan

A land application / resource site plan must be drawn to scale on a seven and one-half foot (7.5') USGS topographic map and labeled to include the following:

- Property boundaries of land owned by the facility
- Label fields with name and acreage(s)
- Label roads and other landmarks
- Private and community domestic water wells and irrigation wells within a one mile radius of the facility
- Dairy location
- Surface water, drains, etc. (include flow direction)
- Streams, springs and sink holes within a one mile radius of the facility
- Rock outcrops, wetlands, buffer strips and sedimentation basins on facility
- I rrigation conveyance and drainage structures and wastewater piping
- Field slopes
- Soil types on an NRCS soil map

## Lagoon Sizing Questionnaire

What is the parlor arrangement (ex. Double 4 Parallel)

How many times do you milk per day?
2 X 3 X
Estimate the time it will take to milk each day?hours/day
Will you load milk directly into a truck?
Yes No
If not, what is the size and number of the bulk tank(s) and/or silo(s)?
How often will the bulk tanks or silo's be cleaned?
X a Day Every Other Day Every 3 <sup>rd</sup> Day Will the bulk tanks be cleaned automatically or manually?
Volume of water for cleaning = gallons
Will sprinklers be used to clean cows in the
holding pen?
Yes No
If the answer is yes Number of strings?
Number of sprinklers in the holding pen?
Flow rate of the sprinklers?
Maximum time you run the sprinklers for eac string?
Will the sprinklers be on a timer or manually controlled?
Percent of time sprinklers are used during the winter?







If you do not use sprinklers, how do you prepare cows for milking? (Be specific)

Volume of water for cleaning = \_\_\_\_ gallons/cow/milking

Do you have back flush on your milking units?

Yes No Volume of water for cleaning = \_\_\_\_\_

gallons/unit/flush

How do you clean the parlor?

Hose it out Time to hose out (min.)\_\_\_\_

Is there a pressure pump on the hose?

Yes No

How many gallons per minute does the

hose put out?\_\_\_\_\_ OR

Time it takes to fill a 5 gallon bucket

(seconds)? \_\_\_\_\_

Deck Flush Flush

How often will you flush?

Volume of water for flush = \_\_\_\_\_

gallons/flush

Other



How do you clean the holding pen? Scrape solids out Hose it out Time to hose out (min.)\_\_\_ Is there a pressure pump on the hose? Yes No How many gallons per minute does the hose put out?\_\_\_\_\_OR Time it takes to fill a 5 gallon bucket (seconds)? \_\_\_\_\_ Flush How often will you flush it? Volume of Flush = gallons/flush Other

How is milk chilled?

Bulk Tank

Pre-Cooler/Plate Cooler

Maximum flow of pre-cooler in a non-

recirculated system?

\_gpm

Water from the cooler is used to:

Flush milk barn

Sent to cow drinkers

Discharged into an irrigation ditch

Other

Recirculated system (glycol or sweet water)

Will you utilize water-cooled compressors? Vacuum pumps? Washing machines? Etc? Estimate volume based on flow rate and time of operation.

Any other water used or re-used that will drain or eventually end up in the lagoon? (Excluding runoff)

What technology or management practice is utilized to keep clean water from entering the lagoon?

How will runoff from the corrals be contained? In the corrals In the main lagoon In a separate runoff lagoon

Define runoff area in the following table. The width and length of the area or acreage must be reported.

Area	W(ft)	L(ft)	Acres	Slope	Surface
Example Corral	250	350		2%	Earth